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(43) That the salaries of district health officers be not less than \$2,000 per annum.

(44) That the salaries of directors of divisions be not less than \$2,500 per annum each.

(45) That the State health organization be provided with suitable offices, necessary equipment, and adequate clerical, laboratory and field forces to effectively administer the public health laws of the State.

(46) That not less than \$65,000 be appropriated annually to defray the expenses of the reorganization of the State health organization and the carrying on of its work.

(47) That a special appropriation of \$3,000 be made to carry on extension work in connection with the education of the public in sanitation and in the control of preventable diseases.

(48) That members of the public health council and members of the State medical examining board be allowed \$10 per diem and other necessary expenses while in the discharge of their duties in lieu of the present allowance.

(49) That the State commissioner be allowed necessary traveling and other expenses when attending meetings and conferences, beyond the limits of the State, in the interest of the public health.

## BIOLOGICAL PRODUCTS.

### ESTABLISHMENTS LICENSED FOR THE PROPAGATION AND SALE OF VIRUSES, SERUMS, TOXINS, AND ANALOGOUS PRODUCTS.

The following table contains a list of the establishments holding, on December 31, 1914, licenses issued by the Treasury Department in accordance with the act of Congress approved July 1, 1902, entitled "An act to regulate the sale of viruses, serums, toxins, and analogous products in the District of Columbia, to regulate interstate traffic in said articles, and for other purposes."

The number of the license of each firm is also given, together with the names of the several products for which licenses have been granted.

No. of licenses.	Establishments.	Products.
1	Parke, Davis & Co., Detroit, Mich.....	Antigonococcic serum; antimeningoococcic serum; antirabic virus; antistreptococcic serum; antitetanic serum; antitubercle serum; diphtheria antitoxin; erysipelas and prodigious toxin; normal horse serum; thyroidecomized horse serum; tuberculin; vaccine virus; bacterial vaccines made from acne bacillus, acne diplococcus, colon bacillus, Friedlander bacillus, influenza bacillus, meningococcus, micrococcus catarrhalis, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, pneumococcus, pseudo-diphtheria bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus pyogenes, and typhoid bacillus; and modified bacterial derivatives prepared from colon bacillus, diphtheria bacillus, gonococcus, pneumococcus, pyocyanus bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, and streptococcus pyogenes.

No. of license.	Establishments.	Products.
2	H. K. Mulford Co., Philadelphia, Pa...	Antianthrax serum; antidysenteric serum; antimeningococcal serum; antipneumonic serum; antirabies virus; antistreptococcal serum; antitetanic serum; diphtheria antitoxin; normal horse serum; tuberculins; vaccine virus; bacterial vaccines prepared from acne bacillus, cholera vibrio, colon bacillus, diphtheria bacillus, Friedlander bacillus, gonococcus, influenza bacillus, meningococcus, micrococcus catarrhalis, micrococcus neoformans, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, plague bacillus, pneumococcus, pseudodiphtheria bacillus, pyocyanus bacillus, staphylococcus albus, staphylococcus aureus, streptococcus pyogenes, and typhoid bacillus; and sensitized bacterial vaccines prepared from acne bacillus, colon bacillus, gonococcus, influenza bacillus, meningococcus, micrococcus catarrhalis, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, pneumococcus, psudodiphtheria bacillus, staphylococcus albus, staphylococcus aureus, streptococcus pyogenes, and typhoid bacillus. Antirabies virus; antitetanic serum; antityphoid vaccine; diphtheria antitoxin; normal horse serum; tuberculins; and vaccine virus.
3	Dr. H. M. Alexander & Co., Marietta, Pa.	Antistreptococcal serum; antitetanic serum; diphtheria antitoxin; normal horse serum; and vaccine virus.
6	The Slee Laboratories, Swiftwater, Pa.	Antimeningococcal serum; antipneumococcal serum; antirabies virus; antistreptococcal serum; antitetanic serum; diphtheria antitoxin; normal horse serum; and vaccine virus.
8	The Cutter Laboratory, Berkeley, Cal..	Antimeningococcal serum; antipneumococcal serum; antirabies virus; antistreptococcal serum; antitetanic serum; diphtheria antitoxin; normal horse serum; and vaccine virus.
9	Frederick Stearns & Co., Detroit, Mich.	Antimeningococcal serum; antipneumococcal serum; antirabies virus; antistreptococcal serum; antitetanic serum; diphtheria antitoxin; normal horse serum; and vaccine virus.
11	Institut Pasteur de Paris, Paris, France.	Antidysenteric serum; antimeningococcal serum; antiplague serum; antiplague vaccine; antistreptococcal serum; antitetanic serum; antivenomous serum; and diphtheria antitoxin.
12	Chemische Fabrik auf Actien, Berlin, Germany.	Antigonococcus vaccine; antistreptococcal serum; diphtheria antitoxin; and tuberculin.
14	Bureau of Laboratories, Health Department, New York City.	Antigonococcus serum; antimeningococcal serum; antipneumococcal serum; antirabies virus; antistreptococcal serum; antitetanic serum; diphtheria antitoxin; normal horse serum; old tuberculin; vaccine virus; and bacterial vaccines prepared from glanders bacillus, gonococcus, pneumococcus, staphylococcus albus, staphylococcus aureus, streptococcus pyogenes, and typhoid bacillus.
16	National Vaccine and Antitoxin Institute, Washington, D. C.	Diphtheria antitoxin; normal horse serum; vaccine virus; and bacterial vaccines prepared from colon bacillus, Friedlander bacillus, gonococcus, micrococcus catarrhalis, micrococcus tetragenus, paratyphoid bacillus A, paratyphoid bacillus B, pneumococcus, pseudo-diphtheria bacillus, pyocyanus bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus pyogenes, and typhoid bacillus.
17	Lederle Antitoxin Laboratories, Pearl River, N. Y.	Antifigococcal serum; antimeningococcal serum; antipneumococcal serum; antirabies virus; antistreptococcal serum; antitetanic serum; diphtheria antitoxin; normal horse serum; vaccine virus; and bacterial vaccines prepared from acne bacillus, cholera vibrio, colon bacillus, Friedlander bacillus, gonococcus, influenza bacillus, meningococcus, micrococcus catarrhalis, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, plague bacillus, pneumococcus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus pyogenes, and typhoid bacillus.
18	Burroughs, Wellcome & Co., London, England.	Anticolon bacillus serum; antidysenteric serum; antigonococcal serum; antimeningococcal serum; antistaphylococcal serum; antistreptococcal serum; antitetanic serum; antityphoid serum; diphtheria antitoxin; normal horse serum; tuberculins; and bacterial vaccines prepared from acne bacillus, cholera vibrio, colon bacillus, influenza bacillus, gonococcus, micrococcus catarrhalis, micrococcus melitensis, pneumococcus, septic bacillus, staphylococci, streptococci, and typhoid bacillus.
19	Serum Division, Memorial Institute for Infectious Diseases, 637 South Wood Street, Chicago, Ill.	Diphtheria antitoxin.

No. of license.	Establishments.	Products.
21	Swiss Serum and Vaccine Institute, Berne, Switzerland.	Antidysenteric serum, antimeningococcic serum, antiplague serum, antipneumonic serum, antistreptococcic serum, antitetanic serum, diphtheria antitoxin, tuberculin, and bacterial vaccines prepared from cholera vibrio, colon bacillus, plague bacillus, pneumococcus, staphylococci, streptococci, and typhoid bacillus.
22	Institut Bactériologique de Lyon, Lyon, France.	Antidiphtheric serum and normal goat serum.
23	Bacterio - Therapeutic Laboratory, Asheville, N. C.	Tuberculin.
24	Farbwerke, vormals Meister Lucius und Brüning, Hoechst on Main, Germany.	Antidysenteric serum, antimeningococcic serum, antipneumonic serum, antistreptococcic serum, antitetanic serum, diphtheria antitoxin, tuberculin.
27	Institut Pasteur de Lille, Lille, France.	Antivenomous serum.
29	The Behringwerk, Marburg, Germany.	Antitetanic serum and tuberculin.
30	Dr. G. H. Sherman, Detroit, Mich.	Bacterial vaccines prepared from acne bacillus, colon bacillus, Friedlander bacillus, gonococcus, influenza bacillus, meningococcus, micrococcus catarrhalis, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, pneumococcus, pseudodiphtheria bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus pyogenes, nonvirulent tubercle bacillus, and typhoid bacillus.
31	E. Merck, Darmstadt, Germany.	Antimeningococcic serum, antipneumonic serum, antistreptococcic serum, diphtheria antitoxin, jequiritosum, leucoforantin (antitryptic sheep serum), normal horse serum (liquid and dried), tuberculin, and bacterial vaccines prepared from colon bacillus, dysentery bacillus, gonococcus, pneumococcus, staphylococci, streptococci, and typhoid bacillus.
32	Kalle & Co., Biebrich, Germany.	Tuberculin (Rosenbach).
35	Dr. Carl Spengler, Davos-Platz, Switzerland.	I. K. immune blood.
38	Laboratorio di Terapia Sperimentale (Bruschettini), Genoa, Italy.	Tuberculosis serum vaccine; and tuberculosis vaccine.
39	Pharmaceutisches Institut Ludwig Wilhelm Ganz Oberursel bei Frankfurt a. M., Germany.	Antidysenteric serum.
40	Hygienic Laboratory, California State Board of Health, Berkeley, Cal.	Antirabic virus; and sensitized typhoid vaccine.
43	The Abbott Laboratories, Abbott Alkaloidal Co., Chicago, Ill.	Bacterial vaccines prepared from acne bacillus, colon bacillus, Friedlander bacillus, gonococcus, pneumococcus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus pyogenes, and typhoid bacillus.
45	Beebe Biological Laboratories, Lowry Annex, St. Paul, Minn.	Bacterial vaccines prepared from staphylococci and streptococci.
46	New York Pasteur Institute, 361 West Twenty-third Street, New York City.	Antirabic virus.
48	Inoculation Department, St. Mary's Hospital, London, England.	Pollicine; and bacterial vaccines prepared from acne bacillus, gonococcus, influenza bacillus, pneumococcus, staphylococci, and streptococci.
49	Dr. W. T. McDougall, 707 Parallel Avenue, Kansas City, Kans.	Antirabic virus.
50	St. Louis Pasteur Institute, 803 North Garrison Avenue, St. Louis, Mo.	Bacterial vaccines prepared from colon bacillus, Friedlander bacillus, gonococcus, influenza bacillus, micrococcus catarrhalis, micrococcus tetragenus, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, pneumococcus, pseudodiphtheria bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus pyogenes, and typhoid bacillus.
51	The Upjohn Co., Kalamazoo, Mich.	Antigonococcic serum; antimeningococcic serum; antirabic virus; antistreptococcic serum; antitetanic serum; diphtheria antitoxin; leucocyte extract; normal horse serum; and bacterial vaccines prepared from acne bacillus, colon bacillus, gonococcus, meningococcus, pneumococcus, pertussis bacillus, pyocyanus bacillus, staphylococci, streptococci, and typhoid bacillus.
52	E. R. Squibb & Sons' Research and Biological Laboratories, New Brunswick, N. J.	Antirabic virus.
53	Laboratory of Clinical Pathology, 1208 Wyandotte Street, Kansas City, Mo.	Do.
54	Dr. James McL. Phillips, 2057 North High Street, Columbus, Ohio.	Staphylococcus vaccine.
55	Chemische Fabrik Güstrow, Güstrow i. M., Germany.	Diphtheria antitoxin; normal horse serum; vaccine virus; and bacterial vaccines prepared from colon bacillus, gonococcus, micrococcus catarrhalis, paratyphoid bacillus A, paratyphoid bacillus B, pneumococcus, pyocyanus bacillus, staphylococcus albus, staphylococcus aureus, streptococcus pyogenes, and typhoid bacillus.
56	Eli Lilly & Co., Indianapolis, Ind.	